

## Comparison chart of Excitron Au Integrated Stepper Motors and Controllers

Comparative torque values in this chart will assist you in finding the best motor size for your application. These Excitron Controllers are intelligent and have built-in power drivers and electrical noise filters, and are fully integrated and matched with the stepper motor. Stepper motors are in the first column, and their part numbers are the width and length in millimeters, example: **SM42-47M** is 42mm wide x 47mm long, M means 0.45 degree per half-step, otherwise the motor has .90 degree per half-step. Clicking on a motor will connect you with the product page for that motor. Serial interface is RS232 ( $\pm 10v$ ).

Stepper Motors	NEMA size	Degree/halfstep	Torque			Au motor and Controller
			in-oz	in-lb	Ncm	
<a href="#">SM20-33</a>	8	0.90	2.5	.16	1.8	<a href="#">Au20-33</a>
<a href="#">SM28-32</a>	11	0.90	4	.25	2.8	<a href="#">Au28-32</a>
<a href="#">SM28-45</a>	11	0.90	9	.56	6.4	<a href="#">Au28-45</a>
<a href="#">SM35-26</a>	14	0.90	6	.38	4.2	<a href="#">Au35-26</a>
<a href="#">SM35-36</a>	14	0.90	6	.38	4.2	<a href="#">Au35-36</a>
<a href="#">SM39-20</a>	14	0.90	9	.56	6.4	<a href="#">Au39-20</a>
<a href="#">SM39-34</a>	14	0.90	23	1.4	16	<a href="#">Au39-34</a>
<a href="#">SM42-33M</a>	17	0.45	35	2.2	25	<a href="#">Au42-33M</a>
<a href="#">SM42-38M</a>	17	0.45	55	3.4	39	<a href="#">Au42-38M</a>
<a href="#">SM42-47M</a>	17	0.45	67	4.2	47	<a href="#">Au42-47M</a>
<a href="#">SM57-40M</a>	23	0.45	84	5.3	59	<a href="#">Au57-40M</a>
<a href="#">SM57-66M</a>	23	0.45	230	14.4	162	<a href="#">Au57-66M</a>
<a href="#">SM57-76M</a>	23	0.45	280	17.5	198	<a href="#">Au57-76M</a>
<a href="#">SM60-45</a>	23+	0.90	140	8.8	99	<a href="#">Au60-45</a>
<a href="#">SM60-86</a>	23+	0.90	380	23.8	268	<a href="#">Au60-86</a>
<a href="#">SM86-65</a>	34	0.90	32	2.0	23	<a href="#">Au86-65</a>
<a href="#">SM86-80</a>	34	0.90	44	2.8	31	<a href="#">Au86-80</a>
<a href="#">SM86-118</a>	34	0.90	83	5.2	59	<a href="#">Au86-118</a>
<a href="#">SM86-156</a>	34	0.90	122	7.6	86	<a href="#">Au86-156</a>
<a href="#">SM110-100</a>	42	0.90	102	6.4	72	<a href="#">Au110-100</a>
<a href="#">SM110-150</a>	42	0.90	200	12.5	141	<a href="#">Au110-150</a>
<a href="#">SM110-180</a>	42	0.90	244	15.3	172	<a href="#">Au110-180</a>
<a href="#">SM110-201</a>	42	0.90	260	16.3	184	<a href="#">Au110-201</a>

Small Gear Motors	NEMA size	Degree/halfstep	Torque			Au motor and Controller
			in-oz	in-lb	Ncm	
<a href="#">SGM24-19-64</a>	--	2.8125	20	1.25	14	--
<a href="#">SGM25-25-30</a>	--	3.75	25	1.56	18	<a href="#">Aug25-25-30</a>
<a href="#">SGM30-20-85</a>	--	3.75	24	1.50	17	--
<a href="#">SGM35-20-85</a>	--	3.75	25	1.56	18	--
<a href="#">SGM35-30-30</a>	--	3.75	24	1.50	17	--

Note: gear ratio is the 3rd set of digits, if applicable